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Isaac Newton brought
to the world the idea
of modeling the

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motion of physical systems with equations. It was necessary to invent calculus along the way, since fundamental equations of motion involve velocities and accelerations, of position. His greatest single success was his discovery that which are derivatives the

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motion of the planets

and moons of the

solar system resulted

from a single

fundamental source:

the gravitational

attraction of the

bodies. He

demonstrated that the

observed motion of

the planets could be

explained by

assuming that there is

a gravitational

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attraction between
any two objects, a
force that is

proportional to the
product of masses
and inversely

proportional to the
square of the distance
between them. The

circular, elliptical, and
parabolic orbits of
astronomy were v

INTRODUCTION no
longer fundamental

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determinants of motion, but were approximations of laws specified with differential equations. His methods are now used in modeling motion and change in all areas of science. Subsequent generations of scientists extended the method of using differential equations

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to describe how physical systems evolve. But the method had a limitation. While the differential equations were sufficient to determine the behavior-in the sense that solutions of the equations did exist-it was frequently difficult to figure out what that behavior

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would be. It was often impossible to write down solutions in relatively simple algebraic expressions using a finite number of terms. Series solutions involving infinite sums often would not converge beyond some finite time.

The purpose of this

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book is to teach the basic principles of problem solving, including both mathematical and nonmathematical problems. This book will help students to ... translate verbal discussions into analytical data. learn problem-solving methods for attacking collections of

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or data. build a

personal arsenal of

internalized problem-

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and solutions. become

``armed problem

solvers'', ready to do

battle with a variety

of puzzles in different

areas of life. Taking a

direct and practical

approach to the

subject matter,

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Krantz's book stands apart from others like it in that it incorporates exercises throughout the text. After many solved problems are given, a "Challenge Problem" is presented. Additional problems are included for readers to tackle at the end of each chapter. There

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